

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P457411

Luminaire Tested: **GALN-SA8D-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59668 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

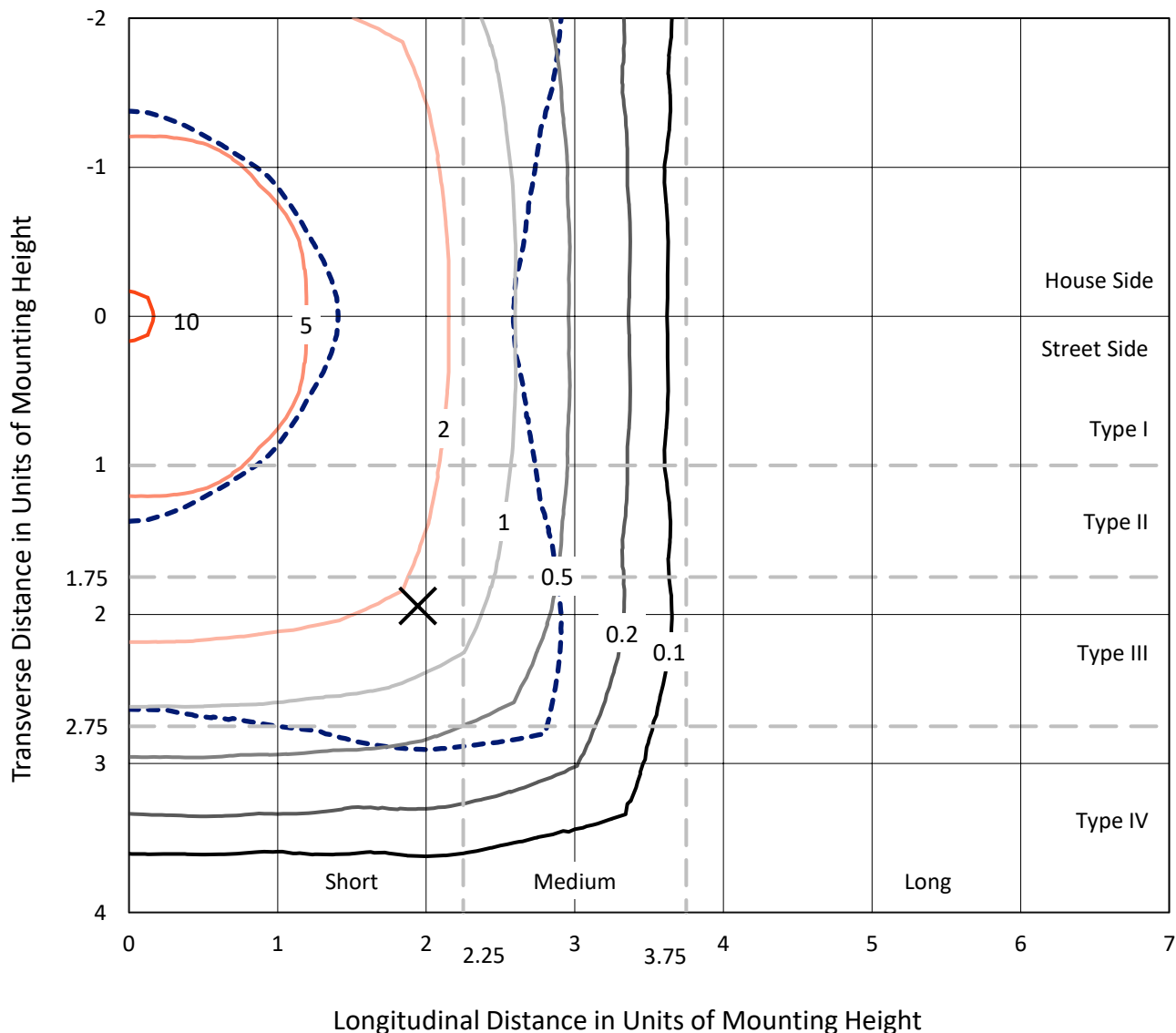
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

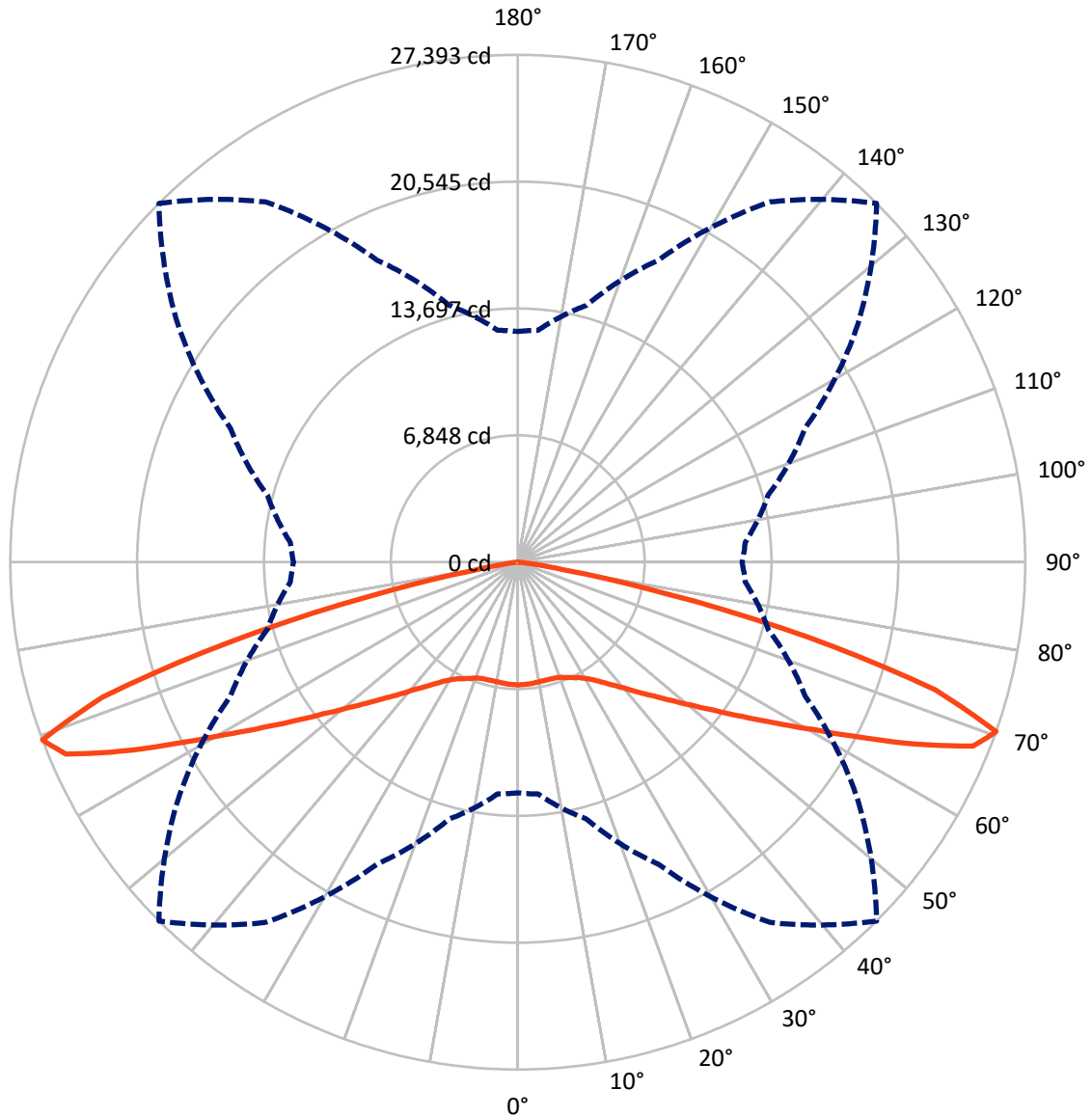
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29834.0	0.0	29834.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29834.0	0.0	29834.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	59668.0	0.0	59668.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.3	1.1
10°-20°	1843.8	3.1
20°-30°	3153.4	5.3
30°-40°	5005.1	8.4
40°-50°	8074.6	13.5
50°-60°	13137.5	22.0
60°-70°	19044.6	31.9
70°-80°	8447.5	14.2
80°-90°	333.2	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	59668.0	100.0
0°-180°	59668.0	100.0



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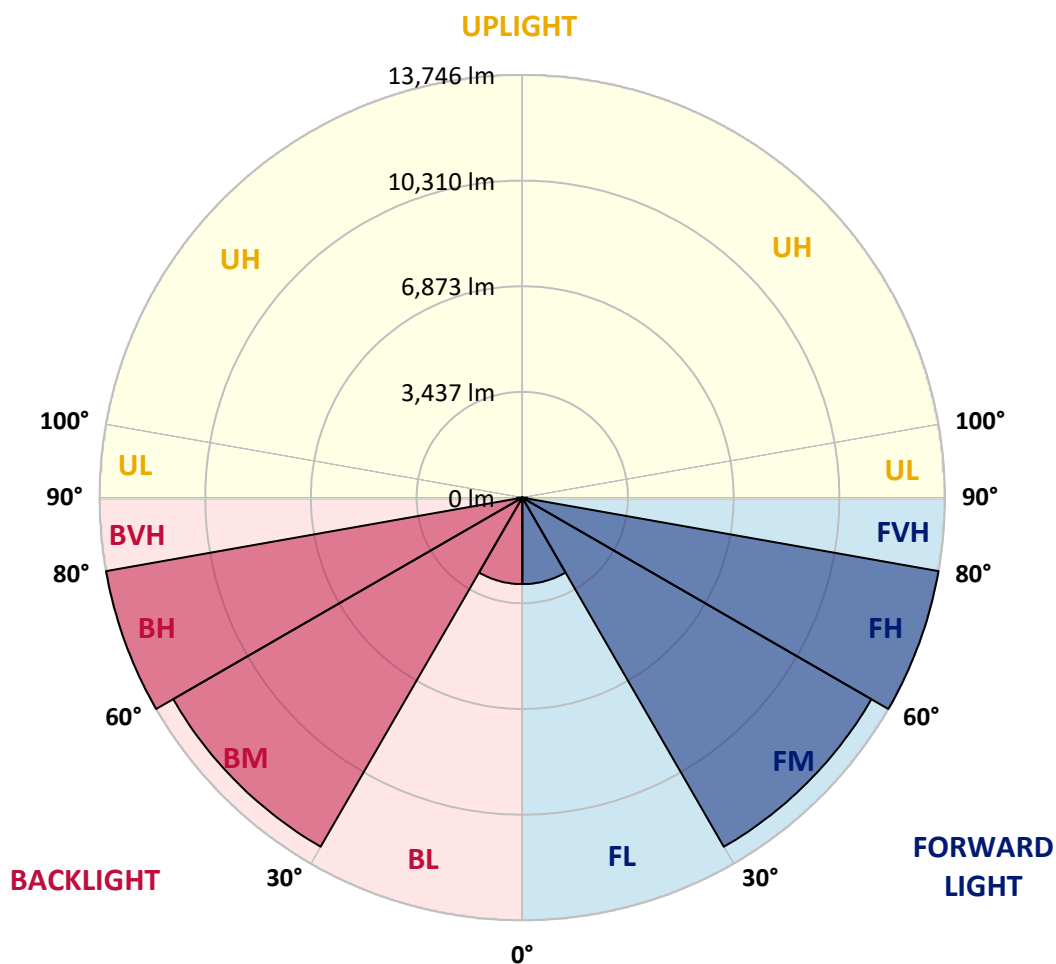
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2812.7	4.7			
FM	(30°-60°)	13108.6	22.0			
FH	(60°-80°)	13746.1	23.0			G5
FVH	(80°-90°)	166.6	0.3			G2/225
BL	(0°-30°)	2812.7	4.7	B4/5000		
BM	(30°-60°)	13108.6	22.0	B5		
BH	(60°-80°)	13746.1	23.0	B5		G5
BVH	(80°-90°)	166.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6625.9	6625.9	6625.9	6625.9	6625.9	6625.9	6625.9	6625.9	6625.9	6625.9	6625.9
2.5°	6625.9	6632.1	6622.7	6616.4	6613.3	6613.3	6610.1	6613.3	6632.1	6635.3	6625.9
5°	6607.0	6613.3	6610.1	6603.8	6600.7	6600.7	6597.5	6594.4	6610.1	6616.4	6613.3
7.5°	6581.8	6585.0	6581.8	6578.7	6581.8	6578.7	6569.2	6563.0	6575.5	6575.5	6572.4
10°	6537.8	6544.1	6540.9	6544.1	6550.4	6550.4	6537.8	6525.2	6528.4	6522.1	6522.1
12.5°	6484.3	6493.8	6496.9	6509.5	6525.2	6544.1	6515.8	6487.5	6481.2	6478.1	6474.9
15°	6449.7	6459.2	6471.8	6484.3	6512.6	6553.5	6512.6	6468.6	6456.0	6443.5	6437.2
17.5°	6440.3	6452.9	6471.8	6490.6	6528.4	6569.2	6534.7	6490.6	6459.2	6440.3	6434.0
20°	6465.5	6474.9	6503.2	6537.8	6591.3	6632.1	6597.5	6550.4	6503.2	6474.9	6465.5
22.5°	6515.8	6531.5	6566.1	6629.0	6704.5	6764.2	6717.0	6638.4	6563.0	6525.2	6512.6
25°	6625.9	6638.4	6679.3	6764.2	6852.3	6908.9	6858.6	6767.4	6663.6	6613.3	6597.5
27.5°	6792.5	6811.4	6855.4	6956.0	7028.4	7059.8	7025.2	6962.3	6886.9	6833.4	6820.8
30°	7028.4	7050.4	7116.4	7223.3	7270.5	7289.4	7273.7	7232.8	7179.3	7122.7	7110.1
32.5°	7346.0	7358.6	7434.0	7534.7	7578.7	7585.0	7566.1	7547.2	7459.2	7364.9	7358.6
35°	7701.3	7723.3	7814.5	7934.0	7974.9	7978.1	7940.3	7912.0	7808.3	7732.8	7732.8
37.5°	8173.0	8182.5	8270.5	8405.7	8449.8	8437.2	8418.3	8393.2	8283.1	8185.6	8188.8
40°	8726.5	8745.4	8820.8	8978.1	8978.1	8962.4	8974.9	8956.1	8846.0	8751.7	8754.8
42.5°	9383.7	9393.2	9484.4	9651.0	9638.5	9607.0	9619.6	9594.4	9525.2	9418.3	9380.6
45°	10085.0	10122.7	10280.0	10440.4	10415.2	10314.6	10364.9	10358.6	10295.7	10135.3	10144.8
47.5°	10930.9	10993.8	11144.8	11336.6	11308.3	11151.1	11207.7	11245.4	11157.3	10981.2	10949.8
50°	11883.8	11924.6	12147.9	12327.2	12302.0	12135.3	12264.3	12270.6	12050.4	11802.0	11802.0
52.5°	12899.5	12940.4	13242.3	13522.1	13537.9	13295.7	13399.5	13393.2	13034.7	12707.7	12644.8
55°	14037.9	14056.7	14446.7	14858.6	14946.7	14710.8	14723.4	14597.6	14132.2	13751.7	13717.1
57.5°	15214.0	15283.2	15714.0	16248.6	16509.6	16364.9	16298.9	15962.4	15512.7	15075.6	15053.6
60°	16515.9	16519.0	17078.8	17710.9	18239.2	18336.7	18066.2	17616.5	17034.8	16456.1	16431.0
62.5°	17418.4	17553.6	18261.2	19330.4	20276.9	20824.1	20110.3	19166.9	18022.2	17088.2	16993.9
65°	17603.9	17695.1	18773.8	20585.1	22519.1	23698.3	22047.4	20041.1	18088.2	16842.9	16780.0
67.5°	16103.9	16201.4	17654.3	20434.2	24091.4	26509.7	23305.3	19619.7	16968.7	15427.8	15305.2
70°	12456.1	12566.2	14361.8	17987.6	23742.4	27393.3	22409.0	17113.4	13993.8	12330.3	12107.0
72.5°	6622.7	7028.4	8563.0	12346.0	19270.6	23585.1	18374.4	12487.5	9025.2	7377.4	7081.8
75°	2418.3	2468.6	3323.9	5474.9	11210.8	16173.1	11641.6	5956.0	3424.6	2644.7	2509.5
77.5°	1000.0	996.9	1094.4	1654.1	4072.4	8283.1	4544.1	1748.4	1091.2	1009.4	996.9
80°	591.2	591.2	650.9	688.7	1072.3	2500.0	1198.1	779.9	654.1	597.5	606.9
82.5°	264.2	279.9	412.0	434.0	518.9	685.5	578.6	496.9	427.7	295.6	267.3
85°	144.7	125.8	217.0	226.4	248.4	254.7	273.6	270.4	248.4	144.7	147.8
87.5°	28.3	34.6	62.9	47.2	53.5	47.2	62.9	88.1	91.2	50.3	40.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)